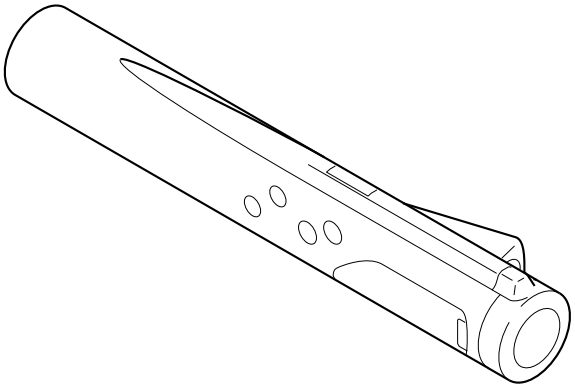
MC-P10

SERVICE MANUAL

US Model



MC-P10	Silver model
MC-P10/B	Black model

VAIO music clip

SPECIFICATIONS

Audio specifications

Frequency response
20 – 20,000 Hz
Signal-to-noise ratio (S/N)
85 dB

Memory capacity

64 MB (including the system software: 60.8 MB available)

Available MP3 file format

Bitrate*: 32–256 kbps
Sampling rate: 32/44.1/48 kHz
* Variable bitrate file not supported.

Output

Headphones jack
Stereo mini-jack

Connector (special mini jack)

USB 1.0 compliant

General

Power requirements
Size AA (LR6) alkaline battery × 1
USB bus power
Battery life
Approx. 5 hours (varies depending on bitrate, volume, etc.)
Power consumption
Approx. 360 mW
Dimensions (approx.)
Approx. $4^{3}/_{4} \times 7/_{8} \times {}^{31}/_{32}$ inches (119.8 × 21.5 × 24.0 mm) (w/h/d)
Mass
Approx. 1.69 oz (48 g) (including battery)
Operating temperature
41°F to 95°F (5°C to 35°C) (not condensed)
Environment temperature
–4°F to 140°F (–20°C to 60°C) (not condensed)

Supplied accessories

- Size AA (LR6) alkaline battery (1)
- Headphones (1)
- Neck strap (1)
- USB cable (1)
- CD-ROM (OpenMG Jukebox installation disc) (1)
- Operating Instructions (1)
- END-USER LICENSE AGREEMENT (1)
- Other printed materials

PERSONAL NETWORK PLAYER

SONY

9-928-151-11

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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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CD-related data through the Internet from the CDDB™ Music CD Database.

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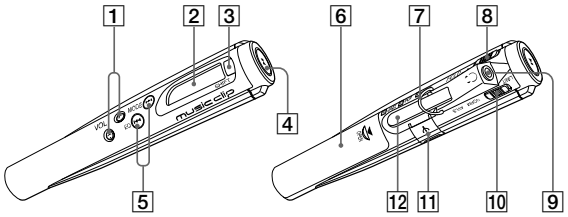
SECTION 1
GENERAL

This section is extracted from instruction manual (4-645-934-11).

Parts and controls

Refer to the page numbers indicated in parentheses for details.



1 VOL (volume) +/– (page 19)
2 Display (page 20)
3 SHIFT button (pages 21, 22)
4 ►/■ button (page 19)
5 I◄◄/►►I(EQ/MODE) buttons (pages 19, 21, 22)
6 Battery compartment (page 13)
7 Strap holder (page 14)
8 HOLD switch (page 23)
9 Headphones jack (page 19)
10 AVLS switch (page 23)
11 USB connector (page 15)
12 Clip

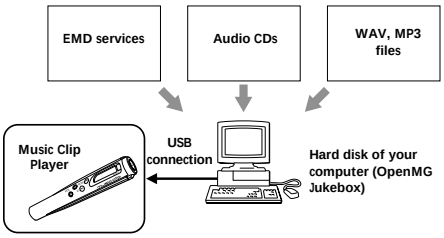
Overview

What you can do with your Music Clip™ Personal Network Player

The Music Clip Player is a portable audio player that allows you to easily transfer digital sound data from your computer to the Music Clip Player.

The OpenMG™ technology* allows you to enjoy digital music, while maintaining the copyrights of its holders.

The OpenMG-compliant application software that is supplied with your Music Clip Player enables you to store digital music data on your computer's hard disk and transfer it to the Music Clip Player.



The supplied OpenMG Jukebox software enables you to import digital sound data by:

– downloading sound data from Electronic Music Distribution (EMD) services over digital networks such as the Internet,

– recording audio CDs onto the hard disk of your computer (the recorded songs are encoded in ATRAC3 format),

– converting existing MP3 and WAV format audio files into OpenMG format. (WAV format audio files are converted into ATRAC3 format, and MP3 format audio files are converted into ATRAC3 format or encoded without changing the format.)

The OpenMG Jukebox encrypts sound data in OpenMG format and stores it on the hard disk of your computer to prevent unauthorized distribution.

* Music Clip Player's copyright protection technology conforms to the SDMI (Secure Digital Music Initiative) specifications.

Copyright protection

The Music Clip Player has some restrictions on recording and playback to protect copyrights.

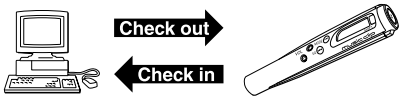
For details, see "Restrictions on copyright protection by OpenMG" on page 30.

What is OpenMG?

OpenMG is a copyright protection technology used when recording and playing back audio data on computers. OpenMG encrypts and saves digital audio data on a computer's hard disk, and allows the audio data to be played back on that computer only, protecting it from being distributed over a network without permission.

Transfer of sound data from your computer to the Music Clip Player (Check in/Check out)

The supplied OpenMG Jukebox software enables you to transfer the sound data stored on your computer's hard disk to the Music Clip Player (Check out) and transfer it from the Music Clip Player to your computer (Check in).



Check in/Check out restrictions:

– You cannot check out the same song more than three times. (Certain songs are excluded from this restriction.) However, if you transfer a checked out song back to your computer (Check in), you can then check out the song again.

– You cannot check in songs checked out to the Music Clip Player to any computer other than the computer used for Check out.

For details, see "Glossary" on page 32.

Restrictions on sound data

Some sound data is distributed with restrictions on recording or playback of the data to maintain copyright of its holders.

If the audio data has a limited playing period or playing count, you cannot check it out to the Music Clip Player. You can play back the data only with the supplied OpenMG Jukebox software.

System requirements

- IBM® PC/AT® and compatibles

  CPU: MMX® Pentium® 233 MHz and above (Pentium II 400 MHz and above recommended)

  Hard disk drive space: 20 MB and above (Free space is required, depending on the version of Windows 98 and the size of the audio data you are using.)

  RAM: 64 MB and above

  CD-ROM drive

  Sound Board: Creative SoundBlaster 16 compatible

  Default built-in USB port

- Operating system: The default installation of Windows® 98 English version (The product does not work on Windows 95/3.1 or Windows NT. Not assured trouble-free if you use an upgrade version from Windows 95/3.1 to Windows 98.)
- Display: SVGA (800 × 600 pixel) (supports High Color (16 bit) and above)
- Internet access

Notes

- We do not assure trouble-free operation for all computers satisfying the system requirements.
- If your computer has optical output, the music played back on OpenMG Jukebox will not send digital data through that optical output.

About this manual

This manual explains how to operate the Music Clip Player. For details on how to use the supplied OpenMG Jukebox software, refer to the software's Help files.

The OpenMG Jukebox has two Help files, OpenMG Jukebox Help, which gives an overview of the software, and VAIO Music Clip Help, which explains how to use the Music Clip Player with the software.

Using the Help

To open the OpenMG Jukebox Help files from the Windows 98 "Start" menu, click "Programs" – "OpenMG Jukebox" – "OpenMG Jukebox Help."

To open the VAIO Music Clip Help files, click "Programs" – "OpenMG Jukebox" – "VAIO Music Clip Help."

You can also open the Help files by clicking "OpenMG Jukebox Help" or "VAIO Music Clip Help" from the OpenMG Jukebox "Help" menu.

(continued)

Selecting a topic from the contents

From the Contents list, select the desired topic.

Searching using a Keyword

1 To search using a Keyword, select the "Index" tab from the Help dialog box.

The Keyword list appears.

2 Enter the keyword you want to apply, or scroll the Keyword list.

3 Select a topic, then click "Display."

Topics related to the Keyword appear.

Installing OpenMG Jukebox

Notes

- **Be sure to install OpenMG Jukebox and restart your computer before connecting the Music Clip Player. Do not install it with the Music Clip Player connected.**
- Do not delete, move, or change contents of the installation folder, as OpenMG Jukebox uses this folder.

This section describes how to install the OpenMG Jukebox software in your computer. Before installation, turn on your computer, and start Windows 98.

1 Insert the supplied CD-ROM into the CD-ROM drive of your computer.
The Setup program automatically starts and the installation begins.

2 Follow the instructions in the Installer window to complete the installation.

When the CD key input dialog box appears, input the number shown on the CD-ROM case.

When installation is finished, the computer restarts.

3 Remove the CD-ROM from the CD-ROM drive.

When the installer does not work

Depending on your computer settings, the installer may not start automatically when you insert the software CD-ROM. You may also start installation by selecting "My Computer" from the desktop. Double-click on your CD-ROM drive icon, and then double-click "Setup.exe" in the CD-ROM drive window.

"OpenMG <MC-P10> Registration" icon on the desktop

When you restart your computer after installing the software, the "OpenMG <MC-P10> Registration" icon will appear on the desktop. Make sure that you can connect to the Internet, then double-click this icon to register the products. For details on customer registration, refer to the supplied "Customer Registration for the VAIO Music Clip Player."

Caution

To protect your personal data, we use SSL (an encryption protocol) for communication between your browser and our WWW server. If you are accessing the Internet from inside of an enterprise LAN, you may not be able to use SSL due to the proxy server of the LAN. Contact your network administrator in this case.

EMD services

To use OpenMG-enabled EMD services on the Internet, you need:

- accessibility to the Internet from your computer. Sign up an Internet service provider and configure your computer for Internet access before using this service.
- several free EMD programs (e.g., EMD key installer). These can be downloaded from the Sony EMD Web page.

  Double-click the "OpenMG <MC-P10> Registration" icon, then follow the displayed instructions. (You can also double-click this icon to register.)
- an EMD service provider.

  Consult the provider for details.

Notes

- If you have set the previous OpenMG Jukebox to display the icon on task tray, right-click the icon and select "Exit" before installing.
- When entering the CD key, you must enter the key for the newer CD-ROM. If an error message appears, make sure that you have entered the correct CD key supplied for the CD-ROM.

How to upgrade OpenMG Jukebox

1 If you want to register yourself as the user of the previous version, do this before moving on to the next step. (You may skip this step if you have already registered or you do not want to register yourself as the user of the previous version.)

2 Use the supplied CD-ROM or a file to update* OpenMG Jukebox. Be sure to perform this step to add drivers necessary for the new version.

* You can use old ATRAC3, MP3 and WAV files you previously recorded from CDs and hard drives or downloaded from EMD services.

3 After the update is complete, double-click the "OpenMG <MC-P10> Registration" icon on the desktop to register yourself as the user of the new version.

Uninstalling OpenMG Jukebox

1 From the Windows 98 "Start" menu, select "Settings," and then click "Control Panel."
The "Control Panel" window appears.

2 Double-click "Add/Remove Programs."
The "Add/Remove Programs" dialog box appears.

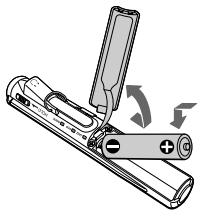
3 Click "OpenMG Jukebox" from the list box, and then click "Add/Remove."

Inserting the battery

Notes

- If you do not use the battery correctly, it may become damaged from leakage and corrosion. For best results:
  - Use the alkaline battery.
  - Make sure the polarity is correct.
  - Do not charge a dry cell battery.
  - Remove the battery, if you do not intend to use the player for an extended period of time.
  - If you have battery leakage, replace with a new battery after cleaning the battery compartment.
- The ▭ mark indicates that the battery has run out. The Music Clip Player will not function after it beeps and the display turns off. Please change the battery.

Insert the size AA (LR6) alkaline battery (supplied) matching the + and – ends on the battery to those inside the battery compartment.



When to replace the battery

Replace the battery when the battery indicator on the display (page 20) reads empty (▭).

Using the Music Clip Player

Notes

- Be sure to install OpenMG Jukebox before connecting the Music Clip Player (see page 11).
- The Music Clip Player is inactive while connected to the computer.
- We do not assure trouble-free operation if you use the USB hub.
- This unit may not work, depending on another USB device that you are using at the same time.
- Some computers may not work correctly after recovering from the suspended status. Disconnect the USB cable and reconnect it.

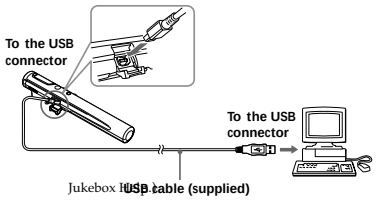
Tip

When the "Startup" setting is ON, OpenMG Jukebox will automatically start when you connect the Music Clip Player. (For more information, see "Changing the initial settings of the OpenMG Jukebox" in OpenMG

This section explains how to transfer CD tracks to the Music Clip Player.

Refer to OpenMG Jukebox Help for information on importing MP3 files and WAV files, and downloading music files via the Internet.

Connecting the Music Clip Player to your computer



Starting OpenMG Jukebox

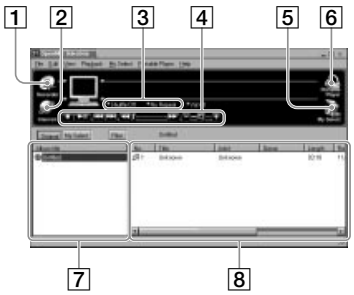
From the Windows 98 "Start" menu, click "Programs" – "OpenMG Jukebox" – "OpenMG Jukebox," or double-click on the Windows desktop.

The OpenMG Jukebox displays.

To exit OpenMG Jukebox

Click the Close button on the OpenMG Jukebox window.

OpenMG Jukebox basic controls



1 **Recorder**
Starts OpenMG CD Recorder.

2 **Internet**
Accesses a Web site for the EMD service supporting OpenMG (page 12)

3 **Shuffle/Repeat indicators**
Displays the shuffle/repeat play status.

4 **Play mode control buttons**
Controls playback, volume, etc.

5 **Edit My Select**
Opens the My Select window

6 **Portable Player**
Opens the Portable Player window

7 **Album titles column window**
Displays the Original album, My Select album, or filter list

8 **Songs column window**
Displays the songs in the selected album.

To import MP3 files

Use the OpenMG File Importer software. The Music Clip Player supports playback of MP3 files with a bitrate of 32–256 kbps. However, the variable bitrate file cannot be played back. For details, see "Importing MP3 files" in OpenMG Jukebox Help.

To name the album and songs

Type the name, or retrieve it from the CDDB website on the Internet. For details, see "Adding information, such as title of a track" in OpenMG Jukebox Help.

Recording a CD on your computer

1 Insert an audio CD into the CD-ROM drive.

2 Click "Recorder."

The CD Recorder window appears.

3 To select certain tracks from your CD, uncheck all unwanted tracks.

You may also click "Clear All," and then select the desired tracks.

4 Click ● (record).

Recording begins.

When the recording is finished, the new Original album appears in the Album Title list of the OpenMG Jukebox window.

On the bitrate

You can choose the bitrate from 132kbps, 105kbps, 66kbps. The bitrate influences sound quality and recording time. If you choose a higher bitrate, the recording will have better sound quality, however the recordable time will be shorter. If you choose a lower bitrate, you can record longer, however the sound will not be as good. See below for the recording time according to the bitrate.

- 132kbps = about 60 minutes
- 105kbps = about 80 minutes
- 66kbps = about 120 minutes

(continued)

You can choose the bitrate from the "Settings" dialog box displayed by selecting "Settings" from the "Control" menu. In the "Settings" dialog box, click the "Setting Option" tab, and choose from the "ATRAC3 Bitrate" list. See "Changing other recording settings" in OpenMG Jukebox Help.

Note
Before transferring songs, make sure the Music Clip Player is connected to your computer.

Transferring the songs to the Music Clip Player (Check out)

1 Click "Portable Player" on the OpenMG Jukebox main window.

The Portable Player window appears on the right side in the main window.

2 Select the desired album in the Album titles column, and click ⇨.

The song names in the selected album appear in the Song Title list of the Portable Player window.

3 Click START.

Check out begins.

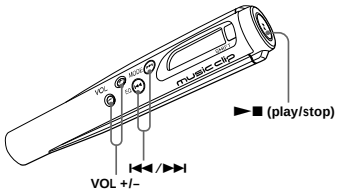
When Check out is complete, the ⇨ icon changes to ♪, and the shaded Song list area in the Portable Player window returns to its normal state.

To cancel checking out
Click STOP.

To transfer songs from the Music Clip Player to your computer
See "Checking in a checked-out song (Check in)" in OpenMG Jukebox Help.

Playing songs on the Music Clip Player

Before operating the Music Clip Player, disconnect it from the computer and the USB cable. The Music Clip Player is deactivated while it is connected to your computer.



1 Connect the headphones (supplied).

2 Press ►■ (play/stop).

Playback begins.

Adjust the volume with the VOL +/– buttons.

Tip
The Music Clip Player does not have a power switch. The Music Clip Player automatically turns off about 10 seconds after it stops playing. Press ►■ (play/stop) again to start playback. The Music Clip Player starts playing from the song you last played on it. It starts playing from the first song stored if you replace the battery or after connecting to a computer.

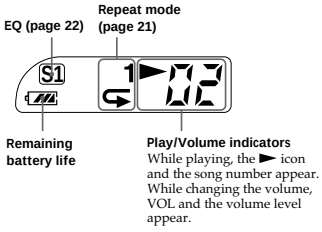
To stop playback
Press ►■ (play/stop).

To	Press
locate the next song	►►I once
locate the beginning of the current song	I◄◄ once
locate previous songs	I◄◄ repeatedly

Note
The display turns off about 10 seconds after playback stops.

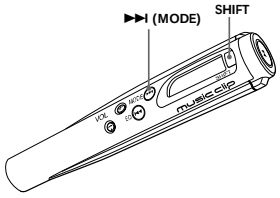
Using the display information

You can check play status, battery life, and other information on the Music Clip Player display.



Playing songs repeatedly (MODE)

You can play all songs or a specific song repeatedly.



To play songs repeatedly, while holding down the SHIFT button, press ►►I (MODE) repeatedly. Each time you press the ►►I (MODE) button, the repeat mode indicator changes as follows:

1 ↻ → ↻ → SHUF ↻ → (no indication)

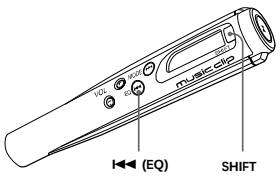
Note
The repeat mode is reset to the factory setting (no indicator) if the battery is removed.

Repeat mode indicator	The player repeats
1 ↻	the current song (1 Repeat)
↻	all songs continuously (All Repeat)
SHUF ↻	all songs in random order (Shuffle Repeat)
No indicator	Repeat mode off

To cancel Repeat Play
While holding down the SHIFT button, press ►►I (MODE) repeatedly until the repeat indicator disappears.

Changing the equalizer (EQ)

You can change the equalizer (EQ) to optimize the type of music you are playing.



To change the EQ, while holding down the SHIFT button, press I◄◄ (EQ) repeatedly. Each time you press I◄◄ (EQ), the EQ indicator changes as follows:

S1 → S2 → S3 → (no indicator)

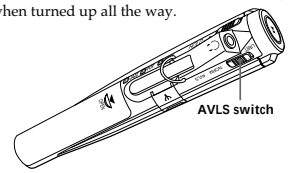
Note
The EQ is reset to the factory setting (no indicator) if the battery is removed.

EQ indicator	Suitable music
S1	JAZZ
S2	POP
S3	ROCK
No indicator	Equalizer off

To cancel EQ
While holding down the SHIFT button, press I◄◄ (EQ) repeatedly until the EQ indicator disappears.

Limiting the maximum volume level with Auto Volume Limiter System (AVLS)

To protect your ears, you can limit the maximum volume level using the Auto Volume Limiter System (AVLS) switch. When the AVLS switch is activated, the volume will not exceed the defined limit, even when turned up all the way.

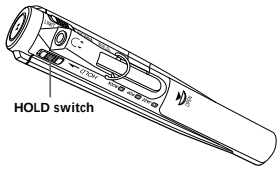


To limit the maximum volume level
Slide the AVLS switch to LIMIT.

To cancel AVLS
Slide the AVLS switch to NORM.

Locking controls (Hold)

The HOLD switch locks all controls to prevent accidental operation.



To lock all controls
Slide the HOLD switch to →

Controls will be locked.

To cancel Hold
Slide the HOLD switch to the other direction.

Glossary

ATRAC3
Abbreviation for "Adaptive Transform Acoustic Coding3."

ATRAC3 is audio compression technology which satisfies both the demand for high sound quality and high compression rates. In comparison to the compression method used for MDs (Mini Disks), it doubles the compression performance, enabling reduction of data capacity for the media.

Check in/Check out
Check out is to transfer music files managed on a personal computer by OpenMG-compliant software to a Portable Player (such as the Music Clip Player). Returning checked out music files back to that computer is to check in. (You cannot move checked out music files to another computer.)

You can also check out a music file, check it back in, and then check it out again.

The SDMI rules provide that up to four copies of a music file can be created unless a special condition for usage is set. Thus, unless a special restriction exists while one copy is saved in the computer, the other three can be checked out to the Portable Players.

MP3
Abbreviation for "MPEG-1 Audio Layer3."

A standard for audio data compression determined by the Motion Picture Experts Group, which is an ISO (International Organization for Standardization) working group.

It enables compression of audio data to about 1/10 of the data size of a standard compact disc. Since the MP3 encoding algorithm is disclosed, there are various encoders/decoders compliant with this standard, including freeware that is available for no charge. Thus, the MP3 standard is widely used in the computer field.

OpenMG
Copyright protection technology to import and manage contents of music distribution services or CDs.

By using OpenMG-compliant software installed in a personal computer, audio contents can be encrypted before storage in a hard disk drive. You can enjoy the playback of the audio data on that computer. OpenMG also functions to prevent unauthorized distribution of the contents via the Internet or the like.

SDMI
Abbreviation for Secure Digital Music Initiative.

A forum that consists of over 130 companies in the fields of recorded audio content, computers and consumer electronics, for the purpose of developing an integrated method of copyright protection technology that can be used worldwide.

SDMI is working to create a framework for preventing improper usage of audio files and to promote legal music distribution services. The copyright protection technology "OpenMG" is based upon the SDMI standard.

SONY

EMD (Electronic Music Distribution) Service Information*1

This product (MC-P10) features OpenMG, a technology developed by Sony to protect copyrighted music.

OpenMG uses a high-level cryptographic technology to protect music contents with computers.*2

You need to download an EMDkey and programs from "OpenMG Registration" page to use the EMD service for OpenMG.*3

How to obtain the EMDkey download (free) *3

Install the supplied OpenMG Jukebox to your personal computer, then click the "OpenMG <MC-P10> Registration " icon on the desktop. You will go to the Web page for the software via the Internet. Follow the steps to download.

SONY recommends that you register your product to provide you with the best possible support. For details, see the insert "Customer Registration for the VAIO Music Clip Player."

On upgrading the supplied OpenMG Jukebox software

This software was developed in accordance with the arrangement between Sony and SDMI. If this arrangement is modified in the future, some software functions may become unavailable. Sony may offer an upgrade kit in this case at additional user expense.

*1 To use the EMD services, you need Internet access.

*2 For details, see "Restrictions on copyright protection by OpenMG" in the supplied Operating Instructions.

*3 You need Internet access.

To protect your personal data, we use SSL (an encryption protocol) for communication between your browser and our WWW server. If you are accessing from inside of an enterprise LAN, you may not be able to use SSL due to the proxy server of the LAN. Contact your network administrator in such case.

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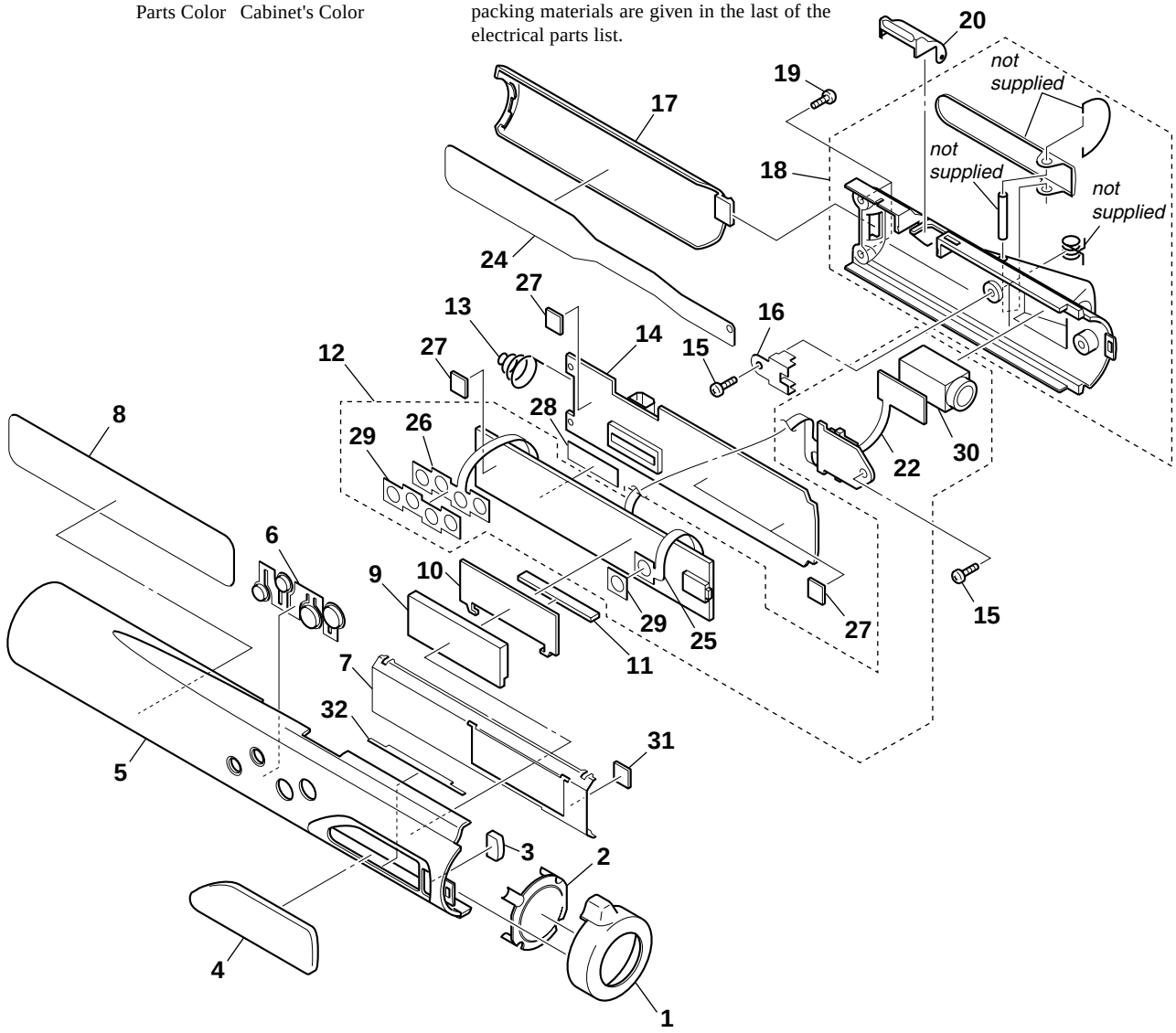
4-646-741-**11** (1)

SECTION 3
EXPLODED VIEW

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.



Ref. No.	Part No.	Description	Remark
1	4-645-355-01	CASE, P (BLUE) . . . (SILVER)	P10
1	4-645-355-11	CASE, P (GREY) . . . (BLACK)	P10/B
2	4-645-356-01	BUTTON, PLAY	
3	4-645-369-01	BUTTON, MODE	
4	4-645-366-01	WINDOW, LCD (BLUE) . . . (SILVER)	P10
4	4-645-366-11	WINDOW, LCD (GREY) . . . (BLACK)	P10/B
5	X-4622-604-1	CASE ASSY, UPPER (SILVER)	P10
5	X-4622-608-1	CASE ASSY, UPPER (BLACK)	P10/B
6	4-645-368-01	BUTTON, VOLUME	
* 7	4-645-371-01	HOLDER, PC BOARD	
8	4-645-357-01	SHEET, BT	
9	1-803-895-11	DISPLAY PANEL, LIQUID CRYSTAL	
10	1-694-653-11	CONDUCTIVE BOARD, CONNECTION	
11	4-645-370-01	BL UNIT	
12	A-8056-772-A	SUB PC BOARD ASSY (S)	
13	4-645-353-01	TERMINAL (–), BATTERY	
14	A-8056-771-A	MAIN PC BOARD ASSY (S)	
15	3-318-382-01	SCREW (1.7X3), TAPPING	
* 16	4-645-361-01	RETAINER, JACK	
17	4-645-354-11	LID, BATTERY (BLACK)	P10/B
17	4-645-354-21	LID, BATTERY (SILVER)	P10
18	X-4622-571-1	CASE ASSY, LOWER (SILVER)	P10
18	X-4622-572-1	CASE ASSY, LOWER (BLACK)	P10/B
19	3-937-492-02	SCREW (1.7X5), PRECISION	
20	4-645-362-01	COVER, USB (BLUE) . . . (SILVER)	P10
20	4-645-362-11	COVER, USB (GREY) . . . (BLACK)	P10/B
22	A-8056-709-A	FLEXIBLE MOUNTED PC BOARD, JACK	
24	4-645-810-01	RIBBON, BATTERY	
25	1-677-092-11	PWB, (MODE) FLEXIBLE	
26	1-677-091-11	PWB, (KEY) FLEXIBLE	
27	3-563-123-01	SPACER	
28	4-645-977-01	SHEET (USB)	
29	1-771-894-11	SHEET, KEY DIAPHRAGM	
30	1-794-021-11	JACK	
31	4-646-755-01	CUSHION	
32	4-646-754-01	SPACER, LCD	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-792-297-11	CABLE, CONNECTION	
	4-645-934-11	MANUAL, INSTRUCTION (ENGLISH)	
	4-645-976-01	STRAP, NECK	
	4-646-038-11	CD-ROM (PC SOFT 9100)	
	8-953-735-90	HEADPHONE MDR-W034LP//O SET	

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